

**PROJECT:** Midnite Mine Remediation

**REPORT NO:** 2019-016

**OWNER:** Newmont/Dawn Mining

**OPERATOR:** Newmont/Dawn Mining

## Summary of Work Activities or Events for this reporting period:

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period July 12 – July 18, 2019. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: <https://amcollab.mwhtools.com/sites/midnitemine>

## SITE HEALTH, SAFETY, AND SECURITY

### MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period July 12 – July 18, 2019

FIRST AID INJURY	0	PROPERTY DAMAGE	2
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		

Comments: Two incidents involved 745 articulated truck bodies turning over (water tank and haul truck box). No injuries were sustained in either event due to the operators cab remaining upright during both incidents.

## COMMUNITY LIAISON

No issues or concerns were reported or received by Newmont from the Spokane Tribe of Indians Community Liaison Officer. Mobilization notifications were provided to the Tribe during the week.

## PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS

### Weekly Progress Meeting:

The Weekly Construction Progress meeting was held at 1000 hours on Wednesday, July 17, 2019 at the on-site conference room and via conference call. Representatives from the following stakeholders attended the meeting in person or via telephone:

- Environmental Protection Agency (EPA)
- Spokane Tribe of Indians
- Jacobs
- Dawn Mining Company (DMC)/Newmont Goldcorp
- Stantec
- Ajax
- WME

### Meeting Action Items:

- None

### EPA Plan/Document Approvals:

- EPA provided conditional approval of the Final Status Survey Work Plans for the following areas:
  - Pit 4 Tie-In
  - Class 2 South South-West
  - South Construction Support Zone.
- The EPA approved each of the plans except for the proposed change in the gamma cutoff from 27 uR/hr to 35 uR/hr.

### Regulatory Site Visit(s):

- Steve Demus, Jacobs representing EPA, was on Site on July 17.

## REMEDIAL WORK ACTIVITIES

### Construction:

During the week of July 12 – July 18, 2019, the following activities were conducted:

- No remedial construction activities were performed after 11:30 p.m. on the night shift of July 15 and after 4:40 p.m. on the night shift of July 17 nor on the July 18 day shift due to the truck bed rollover incidents.
- Continued excavating, hauling and placing low activity/low reactivity material from South Waste Rock Pile (SWRP) west of the South Pond in Pit 4. Material from SWRP was placed on the north, east, and west sides of Pit 4 to create the 20' rind buffer area, at the south end of the Pit 4 backfill to form the 20' radon buffer on the outer waste surface, and in the unclassified waste zone in the interior of the pit.
- Continued to shape smooth the South Pond on the SWRP to final grade. Began pulling rocks.
- Began excavating the portion of the South Pond Spillway that will be concrete lined.
- Excavated Low-Activity/Low-Reactivity mine waste Pit 4 Overburden Pile to the lines and grades shown on Drawing Sheet 4-4 in the East Tie-in area along the east edge of Pit 4 and hauled the mine waste to the Pit 4 Waste Containment Area backfill.
- Continued excavating and hauling high activity/high reactivity material from Ore Stockpile 2 (Stockpile 2). High activity/high reactivity material was placed in the unclassified waste zone in the interior of the Pit 4 backfill.
- The above materials were excavated with either excavator or loader equipment and transported and plug dumped with haul trucks. The plug dumps were leveled with a dozer into lifts not exceeding 10' thick. Table 1 presents the 2019 Pit 4 mass haul material volume.

**Table 1 – 2019 Pit 4 mass haul volume estimates**

Reporting Period	Truck Loads	Estimated Volume <sup>1</sup> yd <sup>3</sup>
July 12 – July 18, 2019	1,792	50,176
2019 Cumulative	46,685	1,307,180

<sup>1</sup> - Truck load assumed to be 28 yd<sup>3</sup>

- Continued work on the Infiltration Collectors (IC) on the west side of Pit 4 on the main channel extension.
- Wm. Winkler completed processing stockpiled timber with their tub grinder in the south Construction Support Zone (CSZ). Chipped materials on the Temporary Impacted Soil Stockpile (TISS) were spread over mine waste material in a lift not exceeding 2 ft in accordance with RFI 2019-003.
- ERG and TetraTech performed Final Status Survey of the class 2 survey area south and west of the West Access Gate (Survey Unit Class 2-SW as shown on Figure S-11 of the *Analytical Support and Verification Plan*, Appendix S of the *Remedial Action Work Plan*) and the west Pit 4 Tie In area.

- Pit 4 tension crack was measured on July 15. The horizontal distance between movement pins remains at 53.75 inches, indicating no measurable movement.

#### **Stormwater Pollution Prevention Plan (SWPPP)**

- None

#### **Spill Prevention, Control, and Countermeasure Activities (SPCC)**

- None

#### **Equipment Mobilized/Demobilized and Material Delivered**

The following equipment was mobilized to the Site during this reporting period.

- Caterpillar CS68B smooth drum vibratory compactor
- Ground Force 6W water wagon

The following equipment was demobilized from the Site during this reporting period.

- Ground Force 9W water wagon

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

#### **Materials:**

The following material was delivered to the Site during this reporting period.

- Began receiving materials for the South Pond including stainless steel banding, cable and eyebolts.

#### **Dust Control and Monitoring**

Six dust monitors were operated during construction activities at the locations and for the time intervals listed in Table 2. The Total Suspended Particulate (TSP) action level of 260 micrograms/cubic meter was exceeded at Sampler ES-7 (~416 micrograms/cubic meter) on Friday, 7/12/2019 for a period of 10 to 15 minutes. On 7/11/2019, the sampler was moved to a location adjacent to the Area 5 hydration station. It was determined the sampler was too close to the incoming haul truck and light vehicle traffic. The sampler was then moved back to its original location on the southwest side of Area 5.

**Table 2 - TSP Dust Monitoring Locations during reporting period July 12 – July 18, 2019**

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	04/01/19	D/N			D/N	D/N	D/N	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	04/01/19	D/N			D/N	D/N	D/N	D/N
ES-3 (stationary)	Midnite Mine West Boundary	04/01/19	D/N			D/N	D/N	D/N	D/N
ES-4 (roving)	Top of Stockpile 3	04/30/19	D/N			D/N	D/N	D/N	D/N
ES-5 (roving)	Spare								
ES-6 (roving)	1) East Side of Pit 4's Top of Pit Access Road (moved to this location on 7/11/2019).	07/11/19							
	2) Area Next to the On-Site Water Tank (moved to this location on 7/17/2019).	07/17/19	D/N			D/N	D/N	D/N	D/N
ES-7 (roving)	1) Southwest side of Area 5.	04/02/19							
	2) Hydration Station - Northeast corner of Area 5 (moved to this location on 7/11/2019 - moved back to Southwest side of Area 5 on 7/12/2019).	07/12/19	D/N			D/N	D/N	D/N	D/N
ES-8 (stationary)	Spare								
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (Fog, smoke, pollen, heavy rain, etc.) – No Operation * Equipment malfunction (Battery/Power Supply or Other)									

## PROJECT DOCUMENTATION

Project Submittals, Engineering Change Notices (ECNs), Requests for Information (RFIs), Non-Compliance Notifications (NCNs), CQA-CQC Field Acceptance Forms and Other Items received, changed or noted during this time-period are shown in the table below:

**Table 3 – CQA Documentation**

Project Submittals			
Submittal No.	Title	Submittal Date	CQA Acceptance Date
01018-35.00	Stockpile 8 East As-Built (additional information requested on 7/2/2019)	7/1/2019 Resubmittal on 7/9/2019	7/11/2019 Under EPA Review
01018-36.00	Stockpile 5 As-Built	7/1/2019	7/2/2019 Under EPA Review
01018-37.00	Stockpile 3-4 Partial As-Built	7/2/2019	7/4/2019 Under EPA Review
Project ECNs			
ECN No.	Title	EPA Submittal Date	EPA Response Date
None			

**Table 3 – CQA Documentation (Continued)**

Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA Response Date
2019-12	Cased Borings on Stockpile 2	7/4/2019	7/11/2019 EPA Acceptance Received 7/17/2019
Project NCNs			
NCN No.	Title	CQA Issue Date	CQC Response Date
None to Date			
CQC-CQA Field Acceptance Forms			
CQC-CQA Acceptance No.	Title	CQC-CQA Issue Date	
2019-17	West Infiltration Collection System – Portions of the Main Collector (Section 8), Lateral/Finger Drain No. 1 (Section 3), No. 2 (Section 5) and No. 3 (Section 2).	7/15/2019	
Other Items			
Item	Title	Comments	
None			

Copies of the updated CQA Logs are located on the project SharePoint site under the 2019 CQA Folder.

## SITE INSPECTIONS

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

### Preparatory Inspections / Meetings

- None during this time-period.

### Initial Phase Inspections

- None during this time-period.

### Follow-up Phase and Ongoing Inspections

Daily observations/inspections by CQA during Pit 4 backfill and other construction activities for the following site-specific tasks:

- Pit 4 Backfill
  - Excavated mine waste from the South-SWRP (west of the South Pond) and the Pit 4 Overburden Pile (all low reactivity/low activity material) was used to construct the 20-foot buffer zone (rind), or was placed as general backfill within the pit.
  - Excavated mine waste from Stockpile 2 (high reactivity/high activity material) was placed within the boundary of the 20-foot buffer zone in the north, middle and south bench areas within the pit.
- West-Side Infiltration Collection System
  - Main Collector (Section 8).
    - Subgrade re-inspection (CQC-CQA 2019-17).
    - GCL placement.
    - Drain gravel placement.
  - Laterals/Finger Drains No. 1 (Section 3), No. 2 (Section 5) and No. 3 (Section 2)
    - Subgrade Inspection (included in CQC-CQA 2019-17).

- Wood Chipping Activities
  - Began chipping stockpiled trees in the south CSZ at the West Gate/New WTP Area on 7/12/2019.
- South Pond
  - Excavated a seep collection sump for the seep located along the northwest side of the pond.
  - Began compacting the pond subgrade with the CS68B smooth drum roller in preparation for the installation of the geomembrane liner system.
- Final Status Surveys
  - ERG collected soil samples and Tetra Tech conducted a gamma survey for both the Class 2 South-Southwest Area and the Pit 4 Tie-in (west side) from 7/15 to 7/17/2019.

#### Completion Inspections

- None

### THREE WEEK LOOKAHEAD SCHEDULE

#### Three Week Lookahead Schedule

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:

David Lee  
Project Construction Director

#### Attachments

- Attachment A – Midnite Mine 3 Week Lookahead Schedule

Photos of pertinent items are provided below.





**Figure 1 – Overview of Pit 4, Looking South**



**Figure 2 – Two load-outs at Stockpile 2, Looking Southeast**



**Figure 3 – Vibratory compactor being used to smooth the South Pond slopes and bottom while the Utility Crew removes unsuitable material from the liner subgrade.**



**ATTACHMENT A**

**MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE**

